

04/19/2007

ECC 63 Herb Hill Road Glen Cove, NY 11542 **STL Edison** 777 New Durham Road Edison, NJ 08817

Tel 732 549 3900 Fax 732 549 3679 www.stl-inc.com

Attention: Mr. Theodore Johnson

Laboratory Results Job No. E707 - Li Tungsten

Dear Mr. Johnson:

Enclosed are the results you requested for the following sample(s) received at our laboratory on April 4, 2007.

<u>Lab No.</u>	<u>Client ID</u>	Analysis Required
819060	5601-FSS-PB-1012-1	As
		Pb
819061	5601-FSS-PB-1027	As
		Pb

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If you have any questions, please contact me at (732) 549-3900.

Very Truly Yours,

Michael Legg Project Manager



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# **Analytical Results Summary**

Client ID: FSS-PB-1012-1

Site: Li Tungsten

Lab Sample No: 819060

Lab Job No: E707

Date Sampled: 04/03/07 Date Received: 04/04/07 Matrix: SOLID Level: LOW

% Moisture: 16.8

#### METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	<u>M</u>	
Arsenic Lead	6.1 7.0	1.1		P D	

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report) M Column - Method Code (See Section 2 of Report)

2

Client ID: FSS-PB-1027 Lab Sample No: 819061

Site: Li Tungsten Lab Job No: E707

Date Sampled: 04/03/07 Matrix: SOLID
Date Received: 04/04/07 Level: LOW

% Moisture: 16.1

#### METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	3.8	1.1		P
Lead	4.4	0.64		₽

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report) M Column - Method Code (See Section 2 of Report)

3

# **General Information**

Chain of Custody

Environmental Chemical Corporation	I Corporation										
1746 Cole Blvd.								4		اند.	
Lakewood, CO 80401										· <b>63</b>	
Phone: (303) 298-7607 Fax: (303) 298-7837				mazn ( Na			COC Numbe	#F'	þ	in.	
Customer Name: ECC – Li Tungsten Address: 63 Herb Hill Road, Glen Cove, NY 11542	ungsten Glen Cove, NY 1154	12				,	ECC Project Manager:_ Address: 63 Herb Hill R	ECC Project Manager:_Phil O'Dwyer Address: 63 Herb Hill Road, Glen Cove, NY 11542	Phil O'Dwyer Road, Glen Co	ove, NY	11542
Contact: Theodore Johnson Phone: (303) 472 - 8834 Fax: (516) 665- 8531					£101		Phone: (614 Customer Pi	Phone: (614) 402 - 2020 Customer Project Name: Li Tungsten	Li Tungst	<u>e</u>	\$
SAMPLE NUMBER	DATE	TIME	TYPE	CLIENT	CLIENT SAMPLE IDENTIFIER	ENTIFIER	TESTS		CONTAINER(S)		MATRIX
5601 -FSS-PB-1012-1	4/3/2007	16:10	FSS		Parcel B		270618	(LD)	1 glass jar	ar	Soil
5601 -FSS-PB-1027	4/3/2007	16:10	FSS		Parcel B		819061	(a.l	1 glass jar	a	Soil
N/A				4. 4 <u>-</u>						-	
N/A											
N/A				~							
N/A						·					
N/A											
N/A											
N/A											
N/A											
N/A											
Notes: Ship to: Severn Trent Laboratory, EDISON 777 New Durham Road, Suite 7, Edison, New Jersey, 08817 Phone: 732-549-3900 Request Turnaround Time: 7 Day	ory, EDISON 7, Edison, New Jerse 7 Day	ey, 08817	Samples	Samples cooled below 4 C	low 4 C		Laboratory Receipt Information Cooler/Container Intact? Samples Received At Be Samples Containers Inta Cooler/Container Custod	Laboratory Receipt Information Cooler/Container Intact? Samples Received At Below 4 C? Samples Containers Intact? Cooler/Container Custody Seal?		Yes N Yes Yes Yes Yes N Yes	90 00 S
			CUSTODY TRANSFER RECORD	RANSFER	RECORD						
Relinquished By		Company		Date	Time	Received By	ed By	Company	H	Date	Time
Print: T Johnson Sign: 7		ECC	4/5	4/3/2007	16:25	Print:	dex				
Print:			hh	107	5001	Print: $Q$ .	Las	272	7 -	13071	200
Print:			:	den i se		Print:					

**Laboratory Chronicles** 

# INTERNAL CUSTODY RECORD AND LABORATORY CHRONICLE STL Edison

# 777 New Durham Road, Edison, New Jersey 08817

Job No:	E707	Site:	Li Tungsten
Client:	ECC	Date Sampled:	4/3/2007
Sample No.:	819060	Date Received:	4/4/2007
		Matrix:	SOLID

## **METALS**

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	4/6/2007	Sanagavarapu, Suguna	4/6/2007	Polidori, Michael	22386
LEAD	4/6/2007	Sanagavarapu, Suguna	4/6/2007	Polidori, Michael	22386

# INTERNAL CUSTODY RECORD AND LABORATORY CHRONICLE STL Edison

# 777 New Durham Road, Edison, New Jersey 08817

Job No:	E707	Site:	Li Tungsten
Client:	ECC	Date Sampled:	4/3/2007
Sample No.:	819061	Date Received:	4/4/2007
•		Matrix:	
		mati ix.	

# **METALS**

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	4/6/2007	Sanagavarapu, Suguna	4/6/2007	Polidori, Michael	22386
LEAC	4/6/2007	Sanagavarapu, Suguna	4/6/2007	Polidori, Michael	22386
				_	

Methodology Review

#### Analytical Methodology Summary

#### Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B.

#### Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

#### GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

#### Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

#### Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

#### Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

- P Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- A Flame Atomic Absorption
- F Furnace Atomic Absorption
- CV Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method <u>Furnace</u>	Solid Test Method Furnace
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

#### Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

#### Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in water and solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

#### Hexavalent Chromium:

Water samples are analyzed using EPA Method 7196A, EPA Method 7199 or (upon request) USGS -1230-35. Soil samples are subjected to alkaline digestion via EPA Method 3060A prior to analysis by EPA Method 7196A or EPA Method 7199.

#### Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

#### Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability - Method 1020A

Corrosivity - Water pH Method 9040B Soil pH Method 9045C

Reactivity - Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release

Toxicity - TCLP Method 1311

#### Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 18th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

#### ORGANIC DATA REPORTING QUALIFIERS

- ND The compound was not detected at the indicated concentration.
- J Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than or equal to the method detection limit. The concentration given is an approximate value.
- B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- P For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
  - \* For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

## INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

- ND/U The compound was not detected at the indicated concentration.
- B Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.
- E The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.
- M Duplicate injection precision not met on the Furnace Atomic Absorption analysis.
- N The spiked sample recovery is not within control limits.
- S The reported value was determined by the Method of Standard Additions (MSA).
- \* Duplicate Analysis is not within control limits.
- W Post digestion spike for Furnace Atomic Absorption analysis is out of control.
- + Correlation coefficient for MSA is less than 0.995.
- M Column Method Qualifiers
- P Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).
- A Flame Atomic Absorption Spectroscopy (FAA).
- F Graphite Furnace Atomic Absorption Spectroscopy (GFAA).
- CV Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary



# **Nonconformance Summary**

STL Edison Job Number: <u>E707</u>

Client: ECC

**Date:** 4/19/2007

# **Sample Receipt:**

Sample delivery conforms with requirements.

## **Metals:**

All data conforms with method requirements.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Director or their designee, as verified by the following signature.

Michael Legg Project Manager

# **Metals Forms and Data**

Analytical Results Summary

Client ID: FSS-PB-1012-1 Lab Sample No: 819060

Site: Li Tungsten Lab Job No: E707

Date Sampled: 04/03/07 Matrix: SOLID
Date Received: 04/04/07 Level: LOW

% Moisture: 16.8

#### METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Oual	М	
Arsenic	6.1	1.1	<u></u>	P	
Lead	7.0	0.65		P	

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report) M Column - Method Code (See Section 2 of Report)

Client ID: FSS-PB-1027 Lab Sample No: 819061 Site: Li Tungsten Lab Job No: E707

Date Sampled: 04/03/07 Matrix: SOLID
Date Received: 04/04/07 Level: LOW

% Moisture: 16.1

#### METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	<u>M</u>
Arsenic	3.8	1.1		P
Lead	4.4	0.64		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report) M Column - Method Code (See Section 2 of Report)

Blank Results Summary

|--|--|

Lab Code: 12028\_ Lab Job No.: \_E707 \_\_\_\_ Batch No.: 22386\_

Preparation Blank Matrix (soil/water): SOIL\_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	       C	Cont		uing Calib lank (ug/L 2			C	   Prepa-   ration   Blank	C	       M
		i						i	i	İ	i
Aluminum_		_ _		1_	ļ	1_		_		_	NR
Antimony_		_ _		1_	l	1_		$ \_ $		_	NR
Arsenic	4.7	ַ   ט	4.7_	U	4.7_	Ų	4.7_	ש	0.470	ן ט	P_
Barium		_ _		1_	ļ	ĺ_		<u> </u> _		<u> </u>	NR
Beryllium						Ĺ			1		NR
Cadmium				İ_		İ_				i	NR
Calcium_		ΞĺΞĺ		ĺΞ	i	İΞ		i i		i	NR
Chromium_	3.0	ַן ט	3.0_	Įΰ	3.0	Ū	3.0	บิ	0.300	U	P
Cobalt		[ <u> </u> _		ĺ_		İ_	ĺ	i_i	ii	ii	NR
Copper		_ _				<u> </u>		<u>                                     </u>			NR
Iron		_ _		_			1	_		<u> </u>	NR
Lead	2.7	ַ ט	2.8_	B	2.7_	ט	2.7_	ן ט	[0.270]	ט	P
Magnesium	VOIC VILLE	_ _		_		_		$ \_ $		<u> </u>	NR_
Manganese		_ _	<u></u>	<b> </b> _		<u> </u>		_	<u> </u>	<u> </u>	NR_
Mercury		_ _		1_		1_	İ	_		_	NR_
Nickel		_ _				<b> </b> _	l			_	NR_
Potassium	W-1-	_ _		_		_	<u> </u>		1	_	NR_
${\tt Selenium}_{\_} $		_		1_		l_	l	_		_	NR_
Silver		_ _		_		_		<u> </u>	1		NR_
Sodium		- _		<u> </u> _		_		_			NR_
Thallium_		. _		<b> </b> _		_		_		_	NR_
Vanadium_	···········	- _		_		_		_		_1	NR_
Zinc		. _		_		_		_	1	_	NR_
Molybdenu		- _		_		_		_		_	NR_
	**************************************	. _		l_		_		_		_1	1

Lab Name: STL_EDISC	)N			
Lab Code: 12028_	Lab Job No.: _E707	B	Batch No.:	22386_
Preparation Blank M	Matrix (soil/water):			
Preparation Blank C	Concentration Units (ug/L or	ma/ka):		

	Initial Calib. Blank			В	uing lank	(ug/L	)			Prepa-   ration	
Analyte	(ug/L)	C	1	С		2	С	3	С	C   Blank C	N
Aluminum		<del></del> - -		1	1		1	1	Ī	_ [	NF
Antimony_	***************************************	-¦-¦-		`¦-	i —		¦-		-¦-	-	NF
Arsenic	•	- j - j -	4.7	ĺΰ		4.7	Ū		-¦-	- '	P
Barium				i			ĺ		-¦-	-       -	NF
Beryllium		-i-i-		'i-	i		i-	i		-	NF
Cadmium_		- i - i -		j			i <sup>-</sup>		-i-	-      -	NE
Calcium		-i-i-		i-	i — —		i	i	-¦	-	NE
Chromium	*****	-i-i-	3.0	υ		3.0	İΰ		-¦-	-      -	P
Cobalt		-i-i-		j	-		i		-¦-		NE
Copper				i-	i		i –		-i-	i ii j	NF
Iron				iΞ	İ		i-		-i-	i i ———i i i	NF
Lead			2.7	Įΰ		2.7	Ū		_i_		P
Magnesium		_ _ _		Ì	ĺ		İ_		-i-		NF
Manganese		_ _ _		1_			Ĺ		- i -	i i <del></del> i - i	NF
Mercury		_ _ _			İ		įΞ		_i_		NR
Nickel		_ _ _		1_			ÌΞ		-j-	·       _	NE
Potassium		_ _ _			Ì		ĺΞ		ΞiΞ	i i — i i i	NR
Selenium_	v	_ _ _		1_	l				_		NR
Silver		_ _ _		1_	l				_i_		NR
Sodium		_ _ _		1_				l	_ [ _		NR
Thallium_		_ _ _		_							NR
Vanadium_		_ _ _		_			_		_ _		NR
Zinc		_ _ _		_					_i_		NR
Molybdenu		_ _ _	W	<b> </b> _			_		_ _		NR
	Warran	_ _ _		1_			<u> </u>		_   _		ĺ

Lab Name:	STL_EDISON		_	<del></del>		
Lab Code:	12028_	Lab Job No.: _	_E707	Batch	No.:	22386_
Preparation	on Blank Ma	trix (soil/wate	er):			
Preparation	on Blank Co	ncentration Uni	its (ua/L or ma/ka	r) :		

	Calib.	į	Cont		uing Calib		tion		   Prepa-	}	
	Blank	- 1		В	lank (ug/L)	)			ration		
Analyte	(ug/L)	C	1	C	2	C	3	C	Blank	c	M
Aluminum_		i				<u> </u>	<u> </u>	<u>-</u>		<u>-</u>	NR_
Antimony_		- i - i		ij_		Ī		i		i	NR
Arsenic_	4.7	ן ט [	4.7	Ū	4.7	Ū	İ	iΤi	i	ĺΤĺ	P
Barium		⁻i i		Ì		ĺ	İ	iΤi		i – i	NR
Beryllium	1			ΪŢ	İ	İΞ		ΪŢΪ		i	NR
Cadmium	i	_i_i		ΪΞ	İ	Ĺ				i_i	NR
Calcium		i_i		Ï		ĺ				i Ti	NR
Chromium_		_		Ï		iΞ		i		i Ti	NR
Cobalt		ii	-	1		i –		i Ti	i	i Ti	NR
Copper	İ	i i		i-		i <sup>–</sup>		i i	i	i i	NR
Iron		- i - i		i-		i –	i	i i	i	i – i	NR
Lead	2.7	ן טן	2.7	ับ	2.7	įπ	i	i i		Ī	P
Magnesium	i — —	ī i		i	i — –	İ	i	i-i		İ	NR
Manganese	}	- i		i_		i-	i	Ιī		i i	NR
Mercury	Ì	] <u> </u>		i_		i _	i	<u> </u>		i i	NR
Nickel	Ì	- i i		j_		i <sup>-</sup>		i i		i – i	NR
Potassium		- i - i		ΪŢ		<u> </u>		ΙĪ		i	NR
Selenium_	i	i Ti		i –		_		i-i		- i	NR
Silver		-i-i		i-		i —		i i		-	NR
Sodium		[[ ]		i-		i –		i			NR
Thallium_	1	i . i	-	i_		i –		i i		i-i	NR
Vanadium_		[ <u>[</u>		i_		i –		i i		i i	NR
Zinc		_i_i		1	-	i –		i i		i – i	NR
Molybdenu	1	-ii		i-		-		i i		-	NR
		-i-i	-		·	i –				-	i

Lab	name:	21T_FDI	50N	<del> </del>			<del></del>		
Lab	Code:	12028_	Lab	Job No.: _E70	7	4	Batch	No.:	22386_
Prep	aratio	on Blank	Matrix	(soil/water):	***************************************				
Drer	aratio	n Blank	Concent	ration Units	(ug/L or	ma/ka) ·			

_	Initial Calib. Blank			В	uing Calib lank (ug/L	)			Prepa- ration	    -	
Analyte	(ug/L)	C	1	C	2	С	3	C	Blank	C	]]
Aluminum		<del></del> ¦		Ī		Ī		_	 	_	N
Antimony		-i-i-		i <sup>-</sup>		i-		iTi		i-i	N
Arsenic	4.7	ַ   דו	4.7	İΰ	4.7	Ū	-5.6	i		i-i	₽
Barium —		-i i		i	i — –	İ	i –	i		i-i	N
Beryllium		-i-i-		i -		-		i-i		i-i	N
Cadmium		-i-i		i-		i <sup>–</sup>		i-i	i	-	N
Calcium		-ii-		i_		i –		-		i	N.
Chromium_		-i-i-		i <sup>-</sup>		i –	i	i i	}	i-i	N
Cobalt		-i-i-		i_		i –		i i	i	i-i	N
Copper		-i-i-		i <sup>-</sup>		i-	<u> </u>	i – i		-	N
Iron —		-i-i-		i –		i-	ì	i-i		i-i	N
Lead		-i-i-		i T		i-	i	i-i		i-i	N
Magnesium		-ii-		i-		i <sup></sup>		i-i		-	N
Manganese		-i-i-		i –		i-		i-i		i-i	M
Mercury_		- i i -		i –		i –		i-i		-	N
Nickel		-i-i-		i <sup>-</sup>		i –	i	i-i	ii	-	NI
Potassium		-i-i-		i T		i –		i-i			N
Selenium_		_i_i_			-	i –		i i		i	N
Silver		_i_i_		ĺ_		Ī		i-i		-i	NI
Sodium		_i_i'		i		i –		ΪĪ	i i	−i	NI
Thallium_		_i_i_i		_		i_		-		-i	N
Vanadium_		_i_i_i_		I				_i		Ξį	N
Zinc		_ _ _		Í_		<u> </u>		_i		-;	NI
Molybdenu	*****	_		i_		i_	j		i	Τį	N
		i i		Ι .		-		_i		-i	ì

Lab Name:	STL_EDIS	on				
Lab Code:	12028_	Lab Job No	.: _E707		Batch No.:	22386_
Preparati	on Blank !	Matrix (soil/	water):			
Preparati	on Blank	Concentration	Units (ug/L c	or mg/kg):		

Analyte	Initial Calib. Blank (ug/L)	C	Cont 1		uing Calib lank (ug/L) 2			       	Prepa- ration Blank	C	
Aluminum		T		Ī				-i		_	NR
Antimony		i – i		i <sup>-</sup>		_	i	-i		-i	NR_
Arsenic			4.7	Ū				_		Ξĺ	P
Barium				İ_	<u> </u>			Ξi		Ξĺ	NR_
Beryllium				ÍΞ				Ξį		ΞÌ	NR_
Cadmium				Ĭ_		<u> </u>		<u> </u>		Ξĺ	NR_
Calcium_				ĬΞ				ΞÌ		<u> </u>	NR_
Chromium_				ĺΞ				_i		_i	NR
Cobalt				<u>  _                                     </u>				<u> </u>		Ξĺ	NR_
Copper				ĺΞ				ΞÌ		Ξ	NR_
Iron		.[_[				_	ll	_		_1	NR_
Lead		. _		_		_	1	_		_1	NR_
Magnesium		. _						_		_i	NR_
Manganese		. _		_						_1	NR_
Mercury		. _		_		_		_	11	_	NR_
Nickel		.	AR	_		_	<u> </u> 1.	_		_	NR
Potassium		. _		1_		_	I	_		_	NR_
Selenium_		. _		1_		_	ll.	_		_1	NR_
Silver	*****	. _		1_			1	_		_	NR_
Sodium		.	+	<b> </b> _		_	ll.	_		_	NR_
$ Thallium_{oldsymbol{-}} $		. _		<b> </b> _		_		_	1	_	NR_
Vanadium_	~~~	<u> _</u>		1_		_	!1.	_		_	NR
Zinc			****	1_		_		_		ا_	NR_
Molybdenu		_		1_1		_		_	ll	_	NR_
		1_1		_		_	ll	_1	ll	_1	11

Calibration Summary

цар	name:	: PIT_EDISOI	N	<del></del>		 <del></del>	
Lab	Code:	: 12028_	Lab Job N	lo.: E70	07	 Batch No.:	22386_
Init	ial (	Calibration	Source:	INORG	VENT		

Continuing Calibration Source: INORG VENT\_\_\_

Concentration Units: ug/L

	Tnitie	al Calibra	ation	<u> </u> 	Continui	nor Cal	ibration		
Analyte	True	Found	%R(1)	   True	Found	%R(1)		%R(1)	
Aluminum					1	1			
Antimony			<u> </u>	i		i —		· · · · · · · · · · · · · · · · · · ·	i N
Arsenic	5000.0	_4991.00	99.8	5000.0	5012.11	100.2	5017.91	100.4	
Barium		i <del>-</del>	i		i —	j	i —	İ	N
Beryllium		i ———	i					i —	ÌÌи
Cadmium_						i		i —	i i n
Calcium_								i —	N.
Chromium_	5000.0	_4976.68	99.5	5000.0	4975.12	99.5	5024.27	100.5	
Cobalt				j <del></del>	_	i <b>–</b>	<del>-</del>	İ	N
Copper								i —	N
Iron								i ——	N
Lead	10000.0	10045.65	100.5	10000.0	9970.95	99.7	10099.34	101.0	P_
Magnesium				i <b>-</b>	_	_		i	N
Manganese		i			· <del></del>				i i nī
Mercury					·	***************************************			, N
Nickel								· ——— ·	,   NI
Potassium									מאן ו
Selenium_								i —— i	i n
Silver									N
Sodium						1	,		N
Thallium_								ii	N
Vanadium_						i — — i			N
Zinc									ומן
Molybdenu									N
	i								i

Lab Na	ame:	STL_EDISON_			_	 ***************************************	
Lab Co	ode:	12028_	Lab Job N	o.:	E707	 Batch No.:	22386_
Initia	al Ca	libration So	ource:	IN	ORG VENT		

Continuing Calibration Source: INORG VENT\_\_\_

Concentration Units: ug/L

    Analyte	Initial True	Calibr Found	ation %R(1)	     True	Continui: Found	_		%R(1)	
Aluminum			<del></del>		<u> </u>	<u> </u>	<u>.                                    </u>	<u> </u>	
Antimony			ļ——	}	 	!		¦	NR
Arsenic			i	5000 0	5028.22	100 6	5016 70	1100 3	
Barium			}		1_5020.22	1		1	NR
Beryllium			¦ <del></del>	1		¦	<del></del>	¦	NR
Cadmium			¦	[		¦		¦	NR
Calcium			¦					ļ	NR
Chromium	¦		!		5017.48	100 3	<u> </u>	100 0	
Cobalt			¦	-5000.0	1_5017.46	1 100.3	1 2041.10	1 100.0	P     NR
Copper			l	[				<u> </u>	NR
Iron	¦-		¦			l		ł	NR
Lead			¦	10000 0	10048.55	100 5	10027 47	100 3	
Magnesium			¦	1_10000.0	10040.55	1	10027.47	1 100.3	F_       NR
Manganese			l	<u></u>		 	·		NR
Mercury		,				¦		ļ	NR
Nickel			l		¦		<del></del>		NR
Potassium						 	-		NR
Selenium			i			<del></del>			NR
Silver			i						NR
Sodium	· · · · · · · · · · · · · · · · · · ·			· ———		i — — i			NR
Thallium	<u> </u>								NR
Vanadium					***************************************				NR
Zinc					-				NR
Molybdenu			i						NR

Lab Name:	STL_EDISON_			 	
Lab Code:	12028_	Lab Job No	o.: E707	 Batch No.:	22386_
Initial Ca	alibration So	ource:	INORG VENT		

Continuing Calibration Source: INORG VENT\_\_

Concentration Units: ug/L

į	Initial				Continui	_		j	Ì
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				 		 		<del></del> ¦	NF
Antimony			İ			i — i -		ii	NF
Arsenic				5000.0	4990.16	99.8			P_
Barium			İ	İ		ii			NE
Beryllium								i i	NF
Cadmium						ii		i —— i	NF
Calcium_			i			İ		i —— i	NF
Chromium_				5000.0	5009.63	100.2			P_
Cobalt			i —	i —		i i			NF
Copper				i ———					NF
Iron					·	i			NF
Lead				10000.0	_9966.29	99.7			] P_
Magnesium  _						i		i — i	NF
Manganese  _						i		i i	NF
Mercury						i		i — i	NF
Nickel				<u></u>		i i -		i i	NF
Potassium  _								i i	NF
Selenium_ _						ii		į—i	NE
Silver						i		i—i	NE
Sodium _						i			NE
Thallium_ _			<u> </u>						NE
Vanadium_						ii		i	NR
Zinc			I						NR
Molybdenu									NR

Lab	Name:	STL EDISON		
		_		

Lab Code: 12028\_ Lab Job No.: E707 \_\_\_\_\_ Batch No.: 22386\_

Initial Calibration Source: INORG VENT\_\_

Continuing Calibration Source: INORG VENT\_\_

Concentration Units: ug/L

  Analyte	Initia True	al Calibra Found		     True	Continui: Found	_	ibration Found	%R(1)	
Aluminum	-		<u> </u>	<u> </u>		]			NR
Antimony					i ———	i —	i		NR
Arsenic	5000.0	4876.76	97.5	5000.0	5048.48	101.0	5077.99	101.6	[   ₽_
Barium	[ <u> </u>	<u> </u>	i —	i —	i <sup>—</sup>	İ	i <sup>—</sup>	İ	NR
Beryllium					i			į	NR
Cadmium					İ				NR
Calcium					l				NR
Chromium_	<u> </u>							İ	NR
Cobalt		<u> </u>						<u> </u>	NR
Copper					<u> </u>				NR
Iron				l		l	l		NR
Lead	_10000.0	_9966.77	99.7	_10000.0	10104.70	101.0	10184.46	101.8	P_
Magnesium							l		NR
Manganese		-		l					NR
Mercury						<u> </u>		l	NR
Nickel				<u> </u>					NR
Potassium				l			<u> </u>		NR
Selenium_								l	NR
Silver						****			NR
Sodium								l	NR
Thallium_									NR
Vanadium_									NR
Zinc									NR
Molybdenu	!								NR
ll								ll	

Lap	Name:	STL_EDISON	N				
Lab	Code:	12028_	Lab Job No	o.: E70	)7	 Batch No.:	22386_
Init	ial C	Calibration	Source:	INORG	VENT		

Continuing Calibration Source: INORG VENT\_\_

Concentration Units: ug/L

Analyte	Initia True	al Calibra Found	ation   %R(1)	True	Continui: Found	ng Cali %R(1)		%R(1)	     M
Aluminum			! 		1		1		     NR
Antimony							· · · · · · · · · · · · · · · · · · ·		NR
Arsenic	5000.0	4938.62	98.8	5000.0	4910.65	98.2	5033.95	100.7	P_
Barium	_	_			i –				NR
Beryllium									NR
Cadmium			- i			i — i		i ——	NR
Calcium_			i i						NR
Chromium_									NR
Cobalt				·····					NR
Copper									NR
Iron									NR
Lead			i — i			i —— i			NR
Magnesium						, ——— ,			NR
Manganese			i						NR
Mercury	i								NR
Nickel									NR
Potassium			i			—-i			NR
Selenium_									NR
Silver									NR
Sodium						i			NR
Thallium_ _									NR
Vanadium_ _	i							——	NR
Zinc									NR
Molybdenu _						;		i	NR
		i				i			

Lab	Name:	STL_EDISON_		 
Lab	Code:	12028_	Lab Job No.: E707	Batch No.: 22386_

Initial Calibration Source: INORG VENT\_\_\_

Continuing Calibration Source: INORG VENT\_\_

Concentration Units: ug/L

	Initial	Calibr	ation		Continui				 
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum_			1			I			NR
Antimony_			.		l				NR
Arsenic			.[	5000.0	_5062.26	101.2	_5100.72	102.0	P_
Barium					l	ł i		ĺ	NR
Beryllium			İ					]	NR
Cadmium_						i i			NR
Calcium	ì		i			i	·	i	NR
Chromium	i		i ——					i — —	NR
Cobalt			i —					i — —	NR
Copper	j_		i —					i — —	NR
Iron_	i		i			i			NR
Lead	ĺ		i — i			i			NR
Magnesium	i		i — i						NR
Manganese	i					i — i			NR
Mercury	į –					i — i			NR
Nickel			i			i — i			NR
Potassium	Ì		ii			ii			NR
Selenium_			i i			i — i			NR
Silver			i i						NR
Sodium			i — i			i			NR
Thallium_			i i		·				   NR
Vanadium_	<u> </u>		ii			i —			NR
Zinc	i_								NR
Molybdenu _			ii						NR
į –	i					i — — i			ij

ICP Interference Check Results Summary

# ICP INTERFERENCE CHECK SAMPLE

Lab	Name:	STL_EDISON	

Lab Code: 12028\_ Lab Job No.: \_E707 \_\_\_\_\_ Batch No.: 22386\_

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT\_\_\_

# Concentration Units: ug/L

!							//	
		rue	In	itial Foun	d	1	Final Foun	đ
	Sol.	Sol.	Sol.	Sol.		Sol.	Sol.	
Analyte 	A	AB	A	AB	₹R	A	AB	%R
Aluminum_	500000	_500000	487890	496445.5	99.3	493300	_502968.4	100.6
Antimony_		100	İ		99.3		: —	82.8
Arsenic		100		101.8	101.8			96.4
Barium		100	<u> </u>	104.7	104.7	<u> </u>	· ——	106.6
Beryllium		100		: <del></del>	98.6		· ——	98.7
Cadmium	l	100		99.5	99.5			99.7
Calcium	500000	_500000	481017	487619.5	97.5	479089	488403.3	
Chromium_		100		98.3	98.3	<u> </u>	_	97.7
Cobalt	l	100		95.7	95.7			95.9
Copper		100		98.3	98.3			100.7
Iron	200000	200000	199244	_202509.0	101.3	197993	202178.8	
Lead	li	100		_	99.7	_ i	_	97.8
Magnesium	500000	_500000	520803			518930	_529088.5	105.8
Manganese	l	100	_ i		96.8		_	96.3
Mercury		 			i –			
Nickel		100		100.9	100.9		101.2	101.2
Potassium					i i			
Selenium_		100		94.2	94.2		92.4	92.4
Silver		100		101.5		I	103.3	_
Sodium					i			1
Thallium_		100		96.1	96.1		97.3	97.3
Vanadium_		100			94.2			96.2
Zinc		100			_99.5		100.7	_
				i	<b>-</b>			

## ICP INTERFERENCE CHECK SAMPLE

цар	Name:	PITTEDISON			
Lab	Code:	12028_	Lab Job No.: _E707	Batch No.:	22386_

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT\_\_\_

	T	rue	Inj	itial Fou	nd	I	Final Found				
	Sol.	Sol.	Sol.	Sol.		Sol.	Sol.				
Analyte	Α	AB	A	AB	%R	A	AB	%R			
Aluminum_	500000	500000		***	<del></del>	492554	505336.6	101			
Antimony_		100			_	·;;		97.			
Arsenic	<u></u>	100			-	¦ <del></del> ¦		100.			
Barium		100			-¦	ˈ  <del></del>		107.			
Beryllium		100		<del></del> -	-¦	·	98.8	!			
Cadmium		100			_	¦		100.			
Calcium_	500000	500000	·		-	484333	100.3				
Chromium_		100		4	-¦			97.			
Cobalt		100			-¦	¦	96.3	· —			
Copper		100		7/1	-	¦		99.6			
Iron	200000	_200000				199534	53.0 _202963.3				
Lead	<u></u>	100			-i			97.8			
Magnesium	500000	500000			-¦	521229	57.0 _531155.9				
Manganese		100			-	_001220		96.7			
Mercury					-		96.7	1-30.			
Nickel		100				ļ <del></del>	101.1	101 2			
Potassium	i	- i		, <u></u>	-¦			1 			
Selenium_	i	100	;		-	¦	00 6	98.6			
Silver		100			-	¦	98.6	· —			
Sodium	i		·		-	¦ —	103.6	1 103.6			
Thallium_		100	·			-	94.0	94.9			
Vanadium_		100	¦-		-¦	¦		94.7			
Zinc	i	100			·¦	-	94.7				

#### ICP INTERFERENCE CHECK SAMPLE

Lab Name:	STL_EDISON_		<u></u>
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Lab Code: 12028\_ Lab Job No.: \_E707 \_\_\_\_ Batch No.: 22386\_

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT\_\_\_

	T	rue	l In	itial Foun	d	Final Found				
	Sol.	Sol.	Sol.	Sol.	_	Sol.	Sol.	<b>.</b>		
Analyte	A	AB	A	AB	%R	A A	AB	%R		
				120	010		AD	040		
Aluminum_	500000	500000	_488787	508436.0	101.7	495596	502385.0	100.5		
Antimony_	<u> </u>	100	İ	105.0	105.0	j —	90.4	90.4		
Arsenic		100		103.4	103.4		100.4	100.4		
Barium		100		108.8	108.8		106.6	106.6		
Beryllium	l	100		100.1	100.1		100.4	100.4		
Cadmium	l	100		101.5	101.5		98.7	98.7		
Calcium	500000	_500000	481043	493160.7	_98.6	485217	496818.7	99.4		
Chromium_		100		98.9	98.9		98.2	98.2		
Cobalt		100		97.1	97.1		97.0	97.0		
Copper	l <u></u>	100		105.7	105.7		101.0	101.0		
Iron	200000	_200000	_198643	_204832.9	102.4	200291	205285.3	102.6		
Lead		100		99.6	99.6		98.1	98.1		
Magnesium	500000	_500000	_519931	_538461.1	107.7	526022	_536983.4	107.4		
Manganese	l	100		99.6	99.6		98.7	98.7		
Mercury	l				ii			i —		
Nickel		100		106.3	106.3		102.1	102.1		
Potassium	l				Íi			j		
Selenium_		100		100.0	100.0		98.3	98.3		
Silver	l	100		102.7	102.7		102.2	102.2		
Sodium					Í			İ		
Thallium_	<u> </u>	100		96.9	96.9		96.2	96.2		
Vanadium_	l	100		96.5	96.5		95.6	95.6		
Zinc	l	100		107.0	107.0		102.0			
					li			İ		

#### ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON	
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Lab Code: 12028\_ Lab Job No.: \_E707 \_\_\_\_ Batch No.: 22386\_

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT\_\_

1	T	rue	j In:	itial Foun	d	<u> </u>	Final Foun	.d
	Sol.	Sol.	Sol.	Sol.		Sol.	Sol.	
Analyte 	A	AB	A A	АВ	&R	A	AB	%R
Aluminum_	500000	_500000	468608	487515.0	97.5	478348	489791.4	98.0
Antimony_	l	100		92.0	92.0	· <u></u>		91.4
Arsenic	<u> </u>	100			97.3			96.2
Barium	1	100			104.1			107.1
Beryllium		100			98.7			98.5
Cadmium	<u> </u>	100			97.0			98.7
Calcium	500000	_500000	_466126	_482546.0			486282.5	· —
Chromium_		100		96.5	96.5	- 	95.8	:-
Cobalt		100		94.6	94.6			97.1
Copper		100		99.3	99.3			98.8
Iron	200000	_200000	_193697	201295.9	100.6	195197	_200240.5	
Lead	<u> </u>	100			98.8	- i	_	97.0
Magnesium	500000	_500000	509151	529131.1	105.8	513526	_526679.4	105.3
Manganese		100	i		96.2	_		95.4
Mercury	ļ	li			- 	**		
Nickel		100		98.3	98.3		98.9	98.9
Potassium					i i			 
Selenium_		100		86.6	86.6		88.1	88.1
Silver		100		102.1	102.1		102.3	! —
Sodium					į	i		
Thallium_		100		93.7	93.7		98.0	98.0
Vanadium_		100		94.0	94.0	i		95.8
Zinc		100		101.1	_ '		101.4	_
l	[	j	i	<del></del> i	i			

Spike Sample Recovery Summary

Level (low/med): LOW\_\_\_\_

#### SPIKE SAMPLE RECOVERY

Lab	Name:	STL_EDISON_	wn 448 /75%	BSS040607	
Lab	Code:	12028_	Lab Job No.: E707	Batch No.: 22386_	

% Solids for Sample: 100.0

Matrix (soil/water): SOIL\_\_

Analyte	Control    Limit     %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	     C	Spike Added (SA)	*R	Q	     M
Aluminum_			<u> </u>		— ¦			-	NR
Antimony	i		i-i		i-i			¦-	NR
Arsenic	75-125	194.3468	1-1	0.4700	! !   TT	200.00	97.2	¦-	P
Barium —	i – i		i-i					<u> </u>	:
Beryllium					-			¦-	NR
Cadmium			-		-			<u> </u>	NR
Calcium			1-1	**************************************					NE
Chromium_	75-125	19.8340	¦-¦	0.3000	! !   TT	20.00	99.2	<u> </u> -	NE
Cobalt			-	0.3000			99.4	<u> </u>	P
Copper			-		-			 	NR
Iron		·	i-i		-			-	NR
Lead	75-125	49.2824	-	0.2700	11	50.00	98.6	-	NR
Magnesium	- i							!-!	P_
Manganese	i		-		- :			!	NR
Mercury		***	i-i	*	-:			-	NR NR
Nickel						·	i	-	
Potassium	i`		<u>'</u>		- -	[		-	NR
Selenium_	i		-		- -	<del></del>	<del></del>	!	NR
Silver	i		i – i		-¦		!	!	NR NR
Sodium	i-		- :				 	-:	
rhallium			-		-¦-		<del></del> [	-:	NR
/anadium_			- -		-¦-			- '	NR NR
Zinc		· · · · · · · · · · · · · · · · · · ·	- -					-:	
Molybdenu			- -		- -		 	-:	NR NR
i			- -	·····	-¦-	<del></del>  -	!	-!	14K

Comments:							
			 	 	 •••		_
******	-		 ν	 <del></del> .	 		
·		<del>-</del>	 	 	 	· · · · · ·	

# SPIKE SAMPLE RECOVERY

Lab Name: STL_EDISON	819486MS
Lab Code: 12028_ Lab Job No.: E707	Batch No.: 22386_
Matrix (soil/water): SOIL	Level (low/med): LOW

% Solids for Sample: \_79.6

     Analyte	  Control    Limit     %R	Spiked Sample Result (SSR)	~	Sample		Spike			     
Analyce	76.	REBUIL (SSR)	C	Result (SR)	C	Added (SA)	%R	ļQ	M
Aluminum			 		-			-	NR
Antimony			¦-¦		-		I	¦-	NR
Arsenic	75-125	228.9116_	i-i	5.2344	-¦	251.26	89.0	<u> </u> -	P
Barium_	i -	-70	iTi		-		¦	¦-	NR
Beryllium			iti		-			-	NR
Cadmium_			i-i		-¦		<u> </u>	!-	NR
Calcium_		· · · · · · · · · · · · · · · · · · ·	i		-i		¦	¦-	NR
Chromium_	75-125	49.6518	i-i	24.6962	-	25.13	99.3		P_
Cobalt	i	<del></del>	i~i		-¦		¦	¦-	NR
Copper			i-i			****	!	¦-	NR
Iron			i-i		-;			 	NR
Lead		272.4616	i	256.7513	-¦	62.81	25.0		P
Magnesium		_	i – i		-¦		<u>-</u> 23.0	¦-¦	T_   NR
Manganese			i-i		-¦			-	NR
Mercury			i		-			-	NR
Nickel			i Ti		-¦				NR
Potassium			Ξi		<b>-</b>   .			¦-¦	NR
Selenium_			Ξi		-¦:			-	NR
Silver			-i		-i			_	NR
Sodium					-¦`	***************************************		-:	NR
$  exttt{Thallium} $			Ξį.		- -	·		!	NR
Vanadium_			_i		-¦-			-:	NR
Zinc			_i		-¦-			-:	NR
Molybdenu			_i.		-   - 			-!	NR
	_		_i.		~   -			-¦	

Comments:						
	<u>.</u>		 - 100	 		
	······································		 	 ·	-wa	
		· · · · · · · · · · · · · · · · · · ·	 	 ***		***

Sample and MS Duplicate Results Summary

#### DUPLICATES

Lab Name:	STL_EDISO	N	_		LCSSD055-D
Lab Code:	12028_	Lab Job No.: _	_E707	Bat	ch No.: 22386

Matrix (soil/water): SOIL\_ Low\_ Low\_ Level (low/med): Low\_

Analyte	Control   Limit	   Sample (S)	cl	Duplicate (D)	c	RPD	      Q	     M
77,			_	1			<u>`</u>	
Aluminum_			_[		_		$\prod$	NR
Antimony_			_		$\exists 11$		i i <sup>—</sup>	NR
Arsenic		83.9742	_11	86.5398	<u> </u>	3.0	i i –	P_
Barium			_//		-ii		i i —	NR
Beryllium		ļi	_11		-ii		i i –	NR
Cadmium			_11		−i i		i i —	NR
Calcium			$\equiv 11$		- j j		-	NR
Chromium_		91.4554	Ξij	94.6572	-i i	3.4	<del>  -</del>	Р
Cobalt			⁻jj		-i i		i-	NR
Copper			−i i		_{ i i ·		1-1	NR
Iron			−i i		-i i	·	1-1	NR
Lead		86.3796	−i i	89.5702	-;;	3.6_		P
Magnesium			-i i		-  -	,	-	NR
Manganese		_	-i i	i	-  -			NR
Mercury			~ii		-	<del></del> ,	:-:	NR
Nickel			_ i i		-  -		:-:	NR
Potassium			-j j	[.	-  -		! — !	NR
Selenium_	,		-¦ ;`		-¦¦-	!	: ;	NR
Silver			- i i ·	· · · · · · · · · · · · · · · · · · ·			:-:	!
Sodium			-i i	<del></del>	-	·		NR
Thallium_	ii		-¦		-¦¦-		! — !	NR
Vanadium_			-  -		-  -		::	NR
Zinc		· · · · · · · · · · · · · · · · · · ·	-		-		:-:	NR
Molybdenu			-		-  -		: - :	NR
j =	i i		-¦¦-		-!!-		!-!:	NR

#### DUPLICATES

Lab Name: STL_EDISON	819486D
Lab Code: 12028_ Lab Job No.:E707	Batch No.: 22386_
Matrix (soil/water): SOIL_	Level (low/med): _LOW
% Solids for Sample: _79.6	% Solids for Duplicate:79.6

Analyte	Control Limit	   Sample (S)	c	   Duplicate (D	) C	    RPD	      Q	M
Aluminum			!	Í	<del></del>		$ \cdot _{-} $	_
Antimony_		!	!-!	ļ	- -	!!	-	NR
Arsenic	!	5.2344	¦-¦	4 570	-!-		_	NR
Barium		J.2344	<del> - </del>	4.512	_ ك	14.8_	!!-!	P_
Beryllium				[	-!-	!!	: !-!	NR
Cadmium	<del></del> ¦		-	[	-¦-	<u> </u>	: ::	NR
Calcium		<u> </u>	<u> </u>	!	- -	<u> </u>	: :-:	NR
Chromium		24.6962	¦-¦	26.924	_{-			NR
Cobalt	*		<u> -</u>	20.924 	*!-:	8.6_	: : — :	P_
Copper			-		-		: : — :	NR
Iron			-		-¦-¦		: :-:	NR
Lead	· · · · · · · · · · · · · · · · · · ·	256.7513	<u> - </u>	229.521	-	17.0	: :-:	NR
Magnesium		<b>_2</b> 30.7313	-	229.521	┶┆╼┆	11.2_	: :-:	P_
Manganese			<u> </u>		-!-!	ļ	— :	NR
Mercury			! <del></del>		- -	ļ	— .	NR
Nickel	I	***	-		-!-!			NR
Potassium			-		-	<u> </u>	: — :	NR
Selenium			\-\		-!-!	ļ!	! — !	NR
Silver					- -	<u> </u>	. — :	NR
Sodium			-		-!-!	ļ	:-:	NR
Thallium			-!!		- -	ļ	! — !	NR
Vanadium		·	!!		- -	<u> </u>	:-:	NR
Zinc -			-[[		-	!!	! — !	NR
Molybdenu			-		-{}	!!	:-:	NR
-			-!!	<del></del>	-!-!	!!	1-11	VR

Laboratory Control Samples Results Summary

# LABORATORY CONTROL SAMPLE

TAD Name: SIT_EDIS	50N	 
Lab Code: 12028_	Lab Job No.:E707	 Batch No.: 22386_
Solid LCS Source:	ERA D055	
Aqueous LCS Source	! <b>:</b>	

N		ous (ug/L				id	(mg/kg)		
Analyte	True	Found	%R	True	Found	С	Limi	its	&R
Aluminum_	 					1 i			
Antimony_						i-i			
Arsenic				88.8	84.0	1-1	71.8	106.0	94.6
Barium		i		· ·		1-1			
Beryllium						i-i			
Cadmium						¦~¦	_		***
Calcium						i-i	¦		
Chromium_				97.9	91.5	i-i	77.2	118.0	93 5
Cobalt						i-i			
Copper					2	-			
Iron					,	<u> </u>			
Lead				88.9	86.4	-	72.7	105.0	97.3
Magnesium									_3/.2
Manganese		· · · · · · · · · · · · · · · · · · ·	<u> </u>			¦-¦		!	
Mercury		i:				-	<u> </u>		
Nickel	_				<del></del>	. 	¦		
Potassium		i			<del></del>	¦=¦·	<del></del>		
Selenium_						¦-¦-		!	
Silver			\		·····	- -			
Sodium		i -				- -	<del></del>		
Thallium_		i				- -	<u>-</u>	,	W
/anadium_						-		!	
Zinc						-	f		
folybdenu			······································			- -			

Serial Dilution Summary

Level (low/med): LOW\_\_\_

# ICP SERIAL DILUTION

Lab	Name:	STL_EDISON_		_		819486L
Lab	Code:	12028_	Lab Job No.:	_E707	Bato	ch No.: 22386_

Matrix (soil/water): SOIL\_

		J.				
Ī		Serial	-	8		
	Initial Sample	Dilution	Ì	Differ-	ÌΪ	j
Analyte	Result (I) C	Result (S)	c	ence	Q	M
Aluminum	]	. 24%	T:			NR
Antimony			i-i		i i —	NR
Arsenic	20.83	23.50	וֹטוֹ	100.0	i i =	P
Barium -			ii		<del></del>	NR
Beryllium			-ii		i i —	NR
Cadmium			- -		i i –	NR
Calcium	i		` -		<del>-</del>	NR
Chromium	98.29	99.02	·i-i	0.7	1-	P
Cobalt	i		'i-i		i —	NR
Copper			i-i		i-	NR
Iron					-	NR
Lead	1021.87	1052.67	·i-i	3.0	i-	P
Magnesium		<del></del>	i	i - i	i-	NR
Manganese	i i i		i-i		i-i	NR
Mercury		****		i i	i-i	NR
Nickel			i-i	ii		NR
Potassium			ΪŢΪ	i	i-i	NR
Selenium_	i i i		i-i		i-i	NR
Silver	i i i		i-i		1	NR
Sodium_			i-i	ì —— i	i-i	NR
Thallium_			i-i		i-i	NR
Vanadium_	i i _ i _ i _ i		i i	i	i	NR
Zinc			i-i	i	i-i	NR
			i i	i — i	i-i	

Analysis Run Log

Lab Name:	STL_EDISON	Contract:
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Lab Code: 12028\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_ SDG No.:22386\_

Instrument ID Number: TRACE1 TJA61\_ Method: P\_

Start Date: 04/06/07 End Date: 04/06/07

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Lab	j		İ													- <u>y</u>		•										
Sample	D/F	Time	8	R	$\overline{A}$	Is	A	В	В	C	C	lc	C	Ĭс	F	P	lм	M	н	N	k	s	ΙΔ	N	lт	v	7.	м
No.	j	İ	i					Α	•	ם		R		•		В	:	N	G	I	<del>-</del> -	•	•	A			N	
Ì	İ	i	İ		i	i	İ	İ								i –	-		-	-	 	i	<b>-</b>		_		**	,
1CAL-BLK	1.00	0949	i		x	x	x	$\bar{x}$	x	X	x	x	x	x	x	x	x	x	-	x		x	x	i-	x	x	<del>-</del>	
T1CAL1_	1.00	0955	j	_	X	х	x	x	x	x	X	x	x		x	x	х	х	-	x	-	X		i-	X		Х	, ,
T1CAL2	1.00	1000			x	X	х	x	$\mathbf{x}$	x	х	x	x	x	x	x	х	х	_	x	- 	x	:	i — i	x	: :		: :
T1CAL3	1.00	1006	Ì		X	X	X	x	Х	Х	Х	Х	Х		:	x	x	X	_	Х	_	X		i –	x	!!	X	: :
ZZZZZZ	1.00	1012	i		i	İ.	İ	i i				Ì	i	i							-	i		-				i i
ICV/CCV_	1.00	1017			i <sup>-</sup>	İ	X	i – i	-	i – i	_	x		i –	i – i	x	i	-	_	-	_	-		-	_	-	-i	-
ICB/CCB_	1.00	1023			i –	i –	x	i – i	i	i – i		х	i – i	i –	i —	Х	i – i	-	-	—	_	-	-	- 	-	-;	¦	, <del></del>
ICSA	1.00	1028	i		i <sup>-</sup>	ì –	$\mathbf{x}$	i Ti	i	_	_	x	i – i	i –	-	х	i	-	_	- 1	-	i – i	_	-		-:	-¦	-i
ICSAB	1.00	1034			i <sup>-</sup>	i <sup>–</sup>	x	i	i i	i i	-	х	-	-	i	х	i — i	-¦	-i	-	-	_	_	i – i	-			
ZZZZZZ_	1.00	1041	j		i <sup>-</sup>	i –		i	j	-	-i	i	i – i	-	i – i	İ	_	_ i	- i	-	-	i – i	-	i i	-	-:	-¦	_¦
ZZZZZZ	1.00	1047			i <sup>-</sup>	j –	i	i – i	-i	_i	-i	i – i	-	-	i i	-	i – i	-i	_;	i	-	-	-	ı	-	-	-i	_i
ZZZZZZ	1.00	1058			i <sup>-</sup>	i	i – i		_i	-i	-i	i – i	I	i – i	i – i	-	-	-i	-i	-i	- i	 	-	l-i	-:	-¦	-;	
ZZZZZZ	2.00	1105	İ		i –	-	i-i	i-i	i	-i	-	i-i	i	i – i	i	-	-	-¦		-	_¦	-	-		-	-	-¦	-¦
ZZZZZZ	1.00	1110			i –	i — i		i-i	-i	-;	i		-	-	i – i	-	-	-¦	-¦		-	i-i	-	-		-	-¦	-
ZZZZZZ	1.00	1116			i –		i – i	'-i	-i	-i	- i	-	-	-	-	-	- i	-¦	-1	-	-¦	-	-1	<u></u> ¦	-	-1	٦¦	-:
ZZZZZZ_	1.00	1121	i		i	i – i	_ i	-i	-i	-i	-i	-i	-i	i – i	i	-¦	-	-		-:	-¦	-	-		-¦	-¦	۲¦	-¦
ZZZZZZ_	1.00	1127			-	_	_i	_i	-i	-;	-i	-i	-i	-		-¦	-i	-¦	-	-¦	-¦	-¦	-		-¦	-¦	۲¦	-
CCV	1.00	1132			i i	i – i	$\bar{\mathbf{x}}$	Ξį	-i	i	-i	$\bar{\mathbf{x}}$	-i	-i	i	$\bar{\mathbf{x}}$	-i	-i	-	-i	-i	-¦	-¦	-		-¦	-¦	
CCB	1.00	1138		- 11	i – i	-	x	i	-i	-i	-i	x	-	-	-;	χİ	- 1	-	-¦	-¦	-	-¦	-¦	-	-	-¦	-¦	-¦
ZZZZZZ	1.00	1143			i i	_i	i	-i	-i	-i	-i	í	_i	-i	-		-1	-i	-i	-	-¦	-;	-¦	-¦	-	-¦	-¦	-¦
ZZZZZZ	1.00	1149			i - i	-i	-;	-i		-i	-i	-;	-i	-i	${i}$	-i	Ti	-	-¦	-¦	-¦	-1	-¦	-¦	-¦	-1	-¦	-¦
ZZZZZZ_	1.00	1154			i – i	~ i	-į	-i	-i	-i	-i	-i	-i	-i	-i	-	-;	-¦	-	-í	-¦	-		-:	٦¦	-¦	٦¦	
ZZZZZZ	1.00	1200			i – i	-	-i	⁻i	Ξi	-i	-i	-i		-i	-i	-i	— ¦	-	-i	-;	¦	-i	-i	-;	-¦	¦	-¦	-¦
ZZZZZZ	1.00	1206			i i	_i	j	-i	-;	-i	i	-i	-i	-i	j	-:	-;	-i	¦	-i	-i	-i	۳¦	-¦	-¦	-¦	٦¦	¦
ZZZZZZ	1.00	1211				-i	-i	-i	-i	-i	٦i	~	-i	-i	-í		-¦	-¦	-¦	-	-¦	-¦	٦¦	-	-¦	-¦	٦Ì	
ZZZZZZ	1.00	1217			_	-i	-;	-i	<del>-</del> i	-i	-¦	-i	-i	-	-1	-i	-i	-	-¦	-¦	-¦	¦	-¦	-1	٦¦	¦		-¦
ZZZZZZ	1.00	1222			iΞi	i	⁻i	-i	−i	−i	-i	Ξi	-i	-i	-i	-i	-i	-i	-1	-i	-i	-i	-	-¦	-¦	-¦	¦	-¦
ZZZZZZ	1.00	1228			i_i	<u> </u>		_i	-i	-;	-	-i	-i	-;		-i	-¦	-		-	-¦	-¦		-	-¦	-¦	- ¦	-
zzzzzz_	1.00	1233			_i	<u> </u>	_i	_i	_i	_i	-i	Ti	Ti	-i	-	-;	-i	-¦	-i	-¦	-¦	-	-	-¦	-	-¦	-	-
CCV	1.00	1239			i-i		$\bar{x}$	-i	-i	_i	-i	x	-	-	-	$\mathbf{x}$	-i	-	-¦	-	-¦	<b>-</b>	-¦	-¦	-¦	-{·	-¦	-¦
CCB	1.00	1244			_i	_i	хİ	i	- i	-i	_ '	хİ	-	-i	-:	X	-	-¦	- ¦	 	-¦	-¦	-¦	!	-¦	-¦	-¦	-1
ZZZZZZ_	1.00	1250			_i	Ξi	_ i	i	Ξį.	_i	-i	i	-i	-i	-i	i	٦'n	-¦	-¦	-	-¦	-¦	٦¦	-¦	-¦	-¦	-¦	-
l [		i			Ξi	_i	_ j	_i	-i	٦į:	-j	-i	-i	-¦	-¦	-¦	-¦	<b>-</b> ¦	-¦	-¦	-¦		-	-¦	-¦	-¦	- -	-

Lab	Name:	STL_	_EDISON	THE STATE OF THE S	Contract:	
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Lab Code: 12028\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_ SDG No.:22386\_

Instrument ID Number: TRACE1 TJA61\_ Method: P\_

Start Date: 04/06/07 End Date: 04/06/07

   Lab														A	na	lу	te	8										
Sample	D/F	Time	   %	R	I_A	S	ΙA	B	lв	l C	l C	Lc	Ic	ĪC	l F	Ιp	M	м	Iн	l nt	l K	ΙC	l A	l at	l Tr	V	17	М
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ZZZZZZ	1.00	1255			·¦–	¦-		-	[-	-	_ 		-	<u> </u>	-	-	<u> </u>	-	<u> </u>		<u> </u> _	ļ_	_	_	ļ_	_	_	ļ_
ZZZZZZ		1301			` -	i-	i-	i-	i	i –	¦-	¦ —	-	¦-	¦-	¦-	¦-	¦-	¦-	¦-	! <del></del>	<u> </u> –	¦-	¦-	¦	_	<u> </u> –	!-
zzzzzz		1306	¦		·¦-	i-	¦-	¦-	¦-	¦-	-	¦-	 	¦-	¦-	¦ —	۱	¦-	¦-	¦		!-	¦-	¦	¦-	!-	-	ļ —
ICSA -		1312	! <del></del>		·¦-		x	i-	¦-	! i	-	x	¦-		¦-	x	<u> </u>	! !	¦-	<u> </u> –	¦-,	<del></del>	¦-	¦-¦	-		-	ļ —
ICSAB		1317	¦		·¦-	-	X	¦~	¦-	¦-	-	x	<u> </u> _	¦-	¦-	X	<u> </u>	¦ —	¦-	¦-	-	-	ļ	-	<u> </u>	<u> </u>	-	-
CCV		1323	<del></del> -		·¦¬	-	x	<u> </u>	-	-	-	X	<u> </u> —	!-	¦-,	X	-	!-	!-		-	_			-	-	-	
ССВ		1329	! 		¦-	¦-	X	 	¦-,	-	_	X	-	-	ļ — ļ	X	<u> </u>	-	ļ —	¦-,	-	-	ا	-	-	!-!		_
SS040607		1338			1-	¦-	X	-	—	-	-	X	-	-	-	X	¦-¦	-	-	-	-	-	ļ	-	<b> </b>	-	_	<u> </u>
BS040607		1344			¦Ξ	¦-	X		-	-	-	X	-	_	-	X	-	-	<u> </u>	-	-	_		-!	_	-		!—
LCSSD055	2.00				¦-	¦-	X	-	-	-		X	-	-	-	X	-		-	-	-		-	-!	-	-	_	_
SSD055-D	2.00				¦-	<u> </u>	X	-	-	- <u> </u>	-			-	-			-	-		-!	_	-	-!	-	-	-	
819486D					<u> </u> -		X	-!	<u> </u> -	-!	-¦	X	-¦	-	!-!	X		-!	-	-!		_	-		_	_!	-!	_
819486		1405			¦-	-	^		-	-!	-¦	X	-¦	-	-	X	-!	-!	-	-	-	-	!-!	-!		-!	_!	_
819486L	2.00	,			<u> </u> -	-	$\frac{1}{x}$			-¦	-¦	X X		-!	-	-	-	-!	-!	' <u> </u>	-!	-	-	-!	_ļ	-!	-	_
819486MS	2.00				<u> </u> -	-	x l	-!	-!	-!		. !	-!	-!	!	X	-!		-!	-!		-!	-	-[	_[	_!	_!	_
ZZZZZZ	2.00				<u>ا</u> ۔۔۔ ا	-	^	-!	-¦	-!	-	X	-!	-!		x	_	-!	_!	_!	-!	-	<u>-</u> !	-!	_	_!	_	_
819479	2.00				<u> </u>	-	-!		-!	-!	_	_!	-		-!	-!	-!	-!	_!	_	_!	_!	!	_!	_	_	_	_
CCV -	1.00	•			<u> </u> -	-	_	!	-!	_!		X	_!	!	_!	_!	_!	_!	_[	_!	_!	_!	_!	_	_	_	_	_
CCB -	1.00		<del></del>			-!	X		-[	-!	-	x	-!	-!	-1	x	_!	-!	-!	_!	_	_	-!		_	_	_	_
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Lab	Name:	STL_EDISON	ī	Contract:	
Lab	Code:	12028	Case No.:	SAS No.:	SDG No.:22386

Instrument ID Number: TRACE1 TJA61\_ Method: P\_

Start Date: 04/06/07 End Date: 04/06/07

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Lab	Name:	STL_EDISON	Contract:

Lab Code: 12028\_ Case No.: \_\_\_\_\_ SDG No.:22386\_

Instrument ID Number: TRACE1 TJA61\_ Method: P\_

Start Date: 04/09/07 End Date: 04/09/07

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Lab	Name:	STL_EDISON	7	Contract:	
Lab	Code:	12028_	Case No.:	SAS No.:	SDG No.:22386_

Instrument ID Number: TRACE1 TJA61\_ Method: P\_

Start Date: 04/09/07 End Date: 04/09/07

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